

## EXHIBIT 1

Page 1 of 4

Dkt No.: YOR920000311US1

Serial No.: 09/846,830

McGinn &amp; Gibb, PLLC

Customer No. 48150

**Disclosure YOR8-1999-1078**

**Created By:** Sam Dinkin    **Created On:** [REDACTED]  
**Last Modified By:** Kathy Cognatello    **Last Modified On:** [REDACTED]

\*\*\* IBM Confidential \*\*\*

Required fields are marked with the asterisk (\*) and must be filled in to complete the form.

**Summary**

Status	Under Evaluation
Processing Location	YOR
Functional Area	600 Kovac-Services, Applications & Solutions
Attorney/Patent Professional	Stephen C Kaufman/Watson/IBM
IDT Team	Stephen C Kaufman/Watson/IBM
Submitted Date	[REDACTED]
Owning Division	RES
PVT Score	73
Lab	
Technology Code	

**Inventors with Lotus Notes IDs**

Inventors: Sam Dinkin/Watson/IBM, Stephen Boies/Watson/IBM, Paul Moskowitz/Watson/IBM, Philip S Yu/Watson/IBM

Inventor Name > denotes primary contact	Inventor Serial	Div/Dept	Manager Serial	Manager Name
Dinkin, Sam	1A8757	22/KDQC	192747	Baseman, Robert J.
Boles, Stephen J.	808055	22/J6EA	578821	Kovac, Caroline
Moskowitz, Paul	967214	22/ORLD	415176	Chou, Paul B.
Yu, Philip S.	897791	22/S34A	713748	Haffm, Nagui

**Inventors without Lotus Notes IDs****IDT Selection****Main Idea****\*Title of disclosure (In English)**

System and Method of Natural Language Telephone Name Service

**\*Idea of disclosure**

1. Describe your invention, stating the problem solved (if appropriate), and indicating the advantages of using the invention.

**Description**

Name service for telephones. Some of the popularity of the world wide web is attributable to the ability to type in a natural language word and be connected.

**Problems**

Phone numbers are hard to remember.

800 numbers have limited availability because of format.

Dkt No.: YOR920000311US1  
Serial No.: 09/846,830  
McGinn & Gibb, PLLC

Customer No. 48150

System and Method of Natural Language Telephone Name Serv...

The telephone number to letter translation is limited.  
411 information is geographically limited, and has limitations on naming conventions.  
For 411, the phone needs to be listed and hooked up to the PSTN.  
The existing numbering convention does not have enough numbers for everyone in the country to have their own toll-free number.  
The existing addressing system does not have capacity to give every pervasive device a unique name.

**Solution****7. Natural language phone directory.**

For telephones that have no number such as computer voice terminals, multi-office workers, occasionally mobile workers. Users type in or say a word or natural language phrase instead of a number. For example, an internet call could be placed to joe@alphaphone.com. This could be implemented by a name service such as 411 or the DNS. This could be used in conjunction with unlisted numbers to guarantee that callers will have to pay a fee before calling. The domain name service (DNS) style addressing would be similar to internet addressing. Each phrase or word would be registered like an internet name. For example, "The Best Little Research Lab in Texas" could be registered to ring 512-838-1159. It would be backward compatible with existing systems. For example, "Area code 512, Austin, Sam Dinkin" would be reserved to all the people named Sam Dinkin in Austin, Texas. "Twelve dot one dot two fifty three dot eleven" would be reserved for the computer with that ip address.

Similar existing services: 411.com, speed dial service, but respectively do not contain unlisted numbers and does not include PSTN listed numbers.

System: Server hooked up to web/PSTN answers call, parses word, looks up number/address associated with word, places call.

User says a word or a phrase and is connected.

Bottom line: easy to remember (virtual) telephone address

Address: a telephone number, an ip number or other information sufficient to connect a call  
Name: a word or phrase consisting of names, words or phrases

Claims:

Claim 1, a system and method of natural language telephone naming comprising  
-server  
-database containing a list of telephone addresses and names  
-the ability to connect an audio call when presented with a name  
-a registry system to collect PSTN listed numbers and other registrations consisting of unlisted telephone addresses

Dkt No.: YOR920000311US1  
Serial No.: 09/846,830  
McGinn & Gibb, PLLC

Customer No. 48150

System and Method of Natural Language Telephone Name Service - continued

Claim 2, the method of claim 1 further comprising  
-natural language parsing

Claim 3, the method of claim 1 further comprising  
-hooked up to the internet  
-able to connect outgoing internet calls

Claim 4, the method of claim 1 further comprising  
-able to connect incoming calls to internet destinations

Claim 5, the method of claim 1 further comprising  
-some of the numbers/addresses in the database are one or more of otherwise unreachable,  
otherwise unlisted; i.e., the ability to restrict access to telephone calls not coming through the  
system

Claim 6, the method of claim 1 further comprising  
-a fee is charged for one or more of the call, the lookup, the listing

Claim 7, the method of claim 1 further comprising  
-one or more of the following is announced following the lookup: the telephone number, the  
internet address

Claim 8, the method of claim 1 further comprising  
-a virtual domain hosting service for internet calls for people who have DHCP connected internet  
telephones

Claim 9, the method of claim 1 further comprising  
-virtual telephone hosting for people who use multiple phone numbers

Claim 10, the method of claim 6 further comprising  
-a market determined price (e.g., auction)

Claim 11, the method of claim 6 further comprising  
-additional lookups of the same address are at a reduced price

Claim 12, the method of claim 6 further comprising  
-some lookups are charged to the lister

Claim 13, the method of claim 6 further comprising  
-some lookups are charged to the caller

Claim 14, the method of claim 1 further comprising  
-multiple parties share the same address, but receive calls from different callers based on the  
attributes of the callers

Claim 15, the method of claim 1 further comprising

Dkt No.: Y0R920000311US1  
Serial No.: 09/846,830  
McGinn & Gibb, PLLC

Customer No. 48150

## System and Method of Natural Language Telephone Name Service - continued

-multiple parties share the same address, but the answer to a natural language challenge determines the extension.

e.g., Caller: "Area Code 212, New York, John Smith" System: "John Smith the athlete or John Smith the writer?"

Claim 16, the method of claim 1 further comprising

-the registry system is distributed to many linked replicated copies of the database

Claim 17, the method of claim 6 further comprising

-a claim system whereby the address to be assigned is announced prior to price determination

Claim 18, the method of claim 1 further comprising

-the ability of the caller to assign nicknames to commonly called addresses

2. How does the invention solve the problem or achieve an advantage, (a description of "the invention", including figures inline as appropriate)?

3. If the same advantage or problem has been identified by others (inside/outside IBM), how have those others solved it and does your solution differ and why is it better?

4. If the invention is implemented in a product or prototype, include technical details, purpose, disclosure details to others and the date of that implementation.

\*Critical Questions ( Questions 1 - 7 must be answered)

Patent Value Tool (Optional - this may be used by the Inventor and attorney to assist with the eval)  
Post Disclosure Text & Drawings